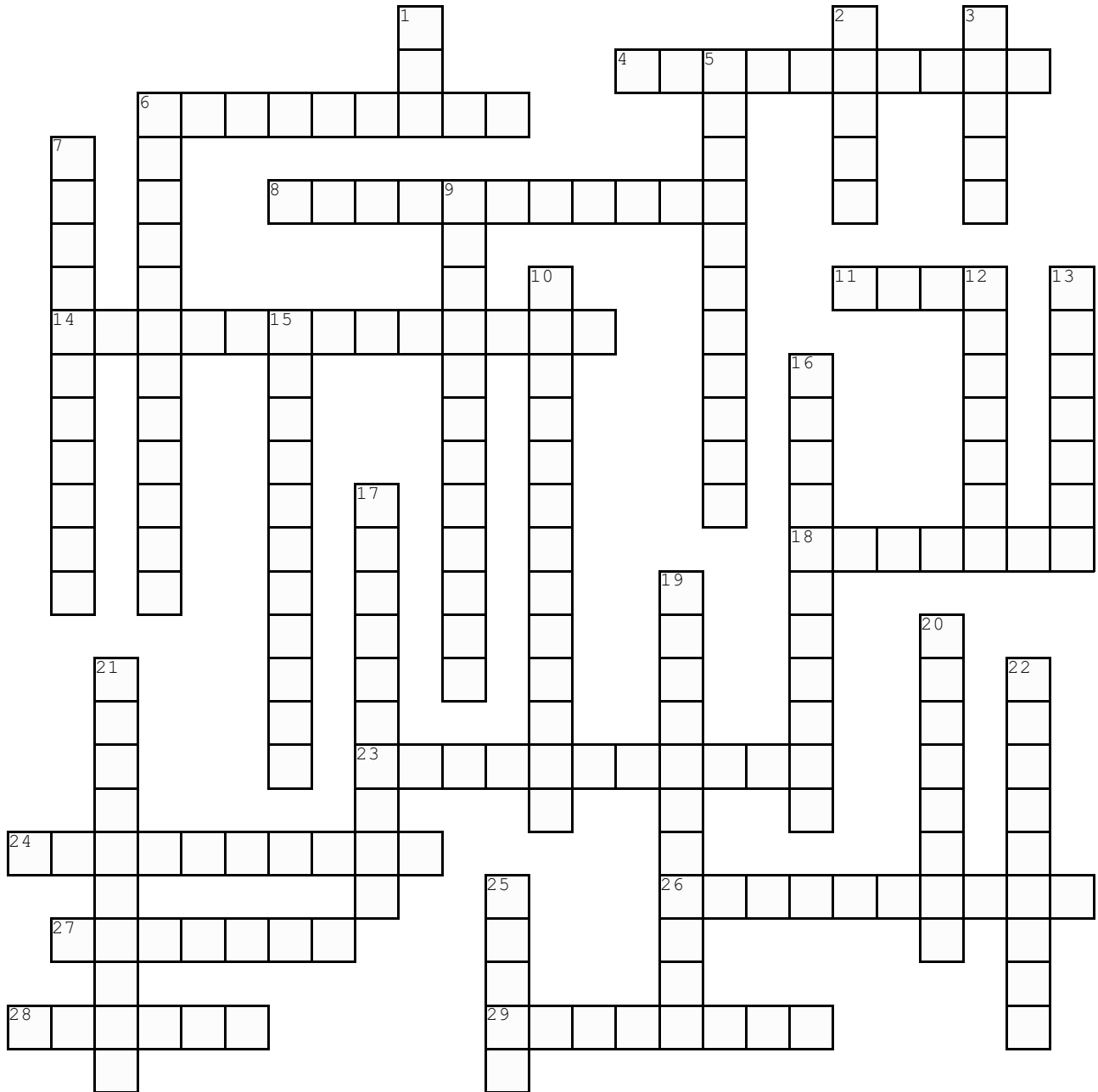


Name: _____

Genes and Proteins Review

Complete the crossword below.



Created with TheTeachersCorner.net Crossword Puzzle Generator

chromosomes instructions transcription gene cytoplasm never mutation shape

cytokinesis parents centraldogma RNA proteins replication translation nucleotide

contractile enzymes hemoglobin complementary geneticcode mitosis structural

aminoacids antibodies codon uracil nucleus identical twentythree

Across

4. _____ are proteins that help protect the body from viral or bacterial infections
6. translation occurs in the _____
8. DNA _____ involves making an exact copy of the DNA
11. a segment of DNA that codes for a certain trait or characteristic
14. in _____, a copy of DNA is made in the form of RNA
18. cell division
23. _____ proteins are involved in processes that make things smaller through compaction
24. the order of _____ bases determines your genes
26. _____ is found in red blood cells and carries oxygen from the lungs to the rest of the body
27. DNA replication and transcription occur in the _____
28. in DNA, Adenine pairs with Thymine. In RNA, Adenine pairs with _____
29. large molecules consisting of amino acids

Down

1. single-stranded nucleic acids that are necessary for transcription and translation
2. group of three consecutive nucleotides in a DNA or RNA sequence that codes for a specific amino acid
3. in DNA and RNA, A _____ pairs with G
5. in _____, RNA is read by ribosomes to make proteins
6. the _____ of molecular biology states that DNA makes RNA makes protein
7. DNA is a long, thin molecule that contains the _____ of living organisms
9. genes are like _____ that tell your cells how to make what they need to live
10. DNA is composed of two _____ nucleotide chains, which means the chains pair together in a very specific way
12. _____ are proteins that promote or speed up chemical reactions
13. genes are passed down from your _____
15. term for the physical separation of two new daughter cells
16. structures of DNA and protein found in the nucleus of cells
17. the building blocks of proteins
19. humans have _____ pairs of chromosomes
20. a change in the DNA sequence of a gene
21. _____ proteins provide strength and mechanical support for cells, tissues, and organs
22. in mitosis, chromosomes in one cell are copied into two _____ sets of chromosomes
25. the _____ of a protein's amino acids determines the protein's structure and function